



(19)

(11) Publication number: **08297858 A**

Generated Document.

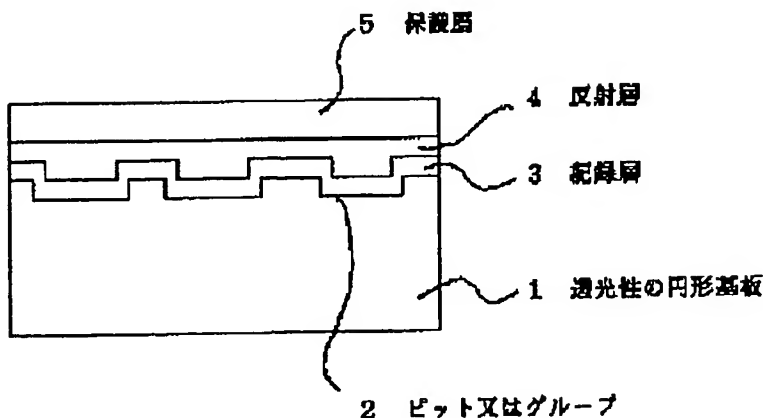
PATENT ABSTRACTS OF JAPAN(21) Application number: **07127201**(51) Intl. Cl.: **G11B 7/24 G11B 7/26**(22) Application date: **27.04.95**

<p>(30) Priority:</p> <p>(43) Date of application publication: 12.11.96</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: PIONEER VIDEO CORP PIONEER ELECTRON CORP</p> <p>(72) Inventor: MOCHIZUKI MANABU KOSAKA HIROYUKI</p> <p>(74) Representative:</p>
---	--

(54) OPTICAL DISK AND ITS PRODUCTION**(57) Abstract:**

PURPOSE: To obtain nearly golden gloss of high reflectivity at a low cost by providing a translucent disk substrate with a reflection layer and forming the reflection layer of a copper alloy thin film contg. 8 to 15wt.% Zn, 1 to 10wt.% Ni and 1 to 10wt.% Sn.

CONSTITUTION: This optical disk is obtd., by using the circular substrate 1 of polycarbonate, forming the cyanine dyestuff thin film as a recording layer 3 by a spin coating method and forming the copper alloy thin film of a thickness of 750 angstrom by DC magnetron sputtering in a vacuum degree of 10 to 3Torr by using a copper alloy target consisting of 80.3wt.% Cu, 15wt.% Zn, 2wt.% Ni, 2wt.% Sn and 0.7wt.% Mn as the reflection layer. The reflection layer of the optical disk obtd. in such a manner exhibits nearly the golden gloss. The reflectivity attains $\geq 70\%$ when the reflectivity is measured by making the laser beam of a wavelength of 770 to 830nm incident.



COPYRIGHT: (C)1996,JPO

THOMSON
DELPHION

RESEARCH

PRODUCTS

INSIDE DELPHION

Home My Account Saved Searches

My Account

Search: Quick/Number Boolean Advanced Derwent

Help

The Delphion Integrated View

Get Now: ☒ PDF | [More choices...](#)Tools: Add to Work File: [Create new Work File](#) [Go](#)View: INPADOC | Jump to: [Top](#) Go to: [Derwent](#)[Email this to a friend](#)Title: **JP8297858A2: OPTICAL DISK AND ITS PRODUCTION**

Derwent Title: Optical disk with reflective layer containing Cu alloy - in which reflection factor of laser light projected from substrate side is more than 70% [\[Derwent Record\]](#)

Country: **JP** JapanKind: **A**

Inventor: **MOCHIZUKI MANABU;**
KOSAKA HIROYUKI;

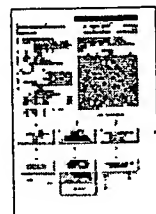
Assignee: **PIONEER VIDEO CORP**
PIONEER ELECTRON CORP
[News, Profiles, Stocks and More about this company](#)

Published / Filed: **1996-11-12 / 1995-04-27**Application Number: **JP1995000127201**IPC Code: **G11B 7/24; G11B 7/26;**Priority Number: **1995-04-27 JP1995000127201**

Abstract: **PURPOSE:** To obtain nearly golden gloss of high reflectivity at a low cost by providing a translucent disk substrate with a reflection layer and forming the reflection layer of a copper alloy thin film contg. 8 to 15wt.% Zn, 1 to 10wt.% Ni and 1 to 10wt.% Sn.

CONSTITUTION: This optical disk is obtd., by using the circular substrate 1 of polycarbonate, forming the cyanine dyestuff thin film as a recording layer 3 by a spin coating method and forming the copper alloy thin film of a thickness of 750 angstrom by DC magnetron sputtering in a vacuum degree of 10 to 3Torr by using a copper alloy target consisting of 80.3wt.% Cu, 15wt.% Zn, 2wt.% Ni, 2wt.% Sn and 0.7wt.% Mn as the reflection layer. The reflection layer of the optical disk obtd. in such a manner exhibits nearly the golden gloss. The reflectivity attains $\geq 70\%$ when the reflectivity is measured by making the laser beam of a wavelength of 770 to 830nm incident.

COPYRIGHT: (C)1996,JPO




Family: **None**View
Image

1 page

Forward
References:

Go to Result Set: Forward references (6)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6790503	2004-09-14	Nee; Han H.	Target Technology Company, LLC	Metal alloys for the reflective or the semi-reflective layer of an optical storage medium
	US6764735	2004-07-20	Nee; Han H.	Target Technology Company, LLC	Metal alloys for the reflective or the semi-reflective layer of an optical storage medium
	US6544616	2003-04-08	Nee; Han H.	Target Technology Company, LLC	Metal alloys for the reflective or the semi-reflective layer of an optical storage medium

	US6451402	2002-09-17	Nee; Han H.	Target Technology Company, LLC	<u>Metal alloys for the reflective or the semi-reflective layer of an optical storage medium</u>
	US6280811	2001-08-28	Nee; Han H.	Target Technology Company, LLC	<u>Metal alloys for the reflective or the semi-reflective layer of an optical storage medium</u>
	US6007889	1999-12-28	Nee; Han H.	Target Technology, LLC	<u>Metal alloys for the reflective or the semi-reflective layer of an optical storage medium</u>

Other Abstract
Info:

DERABS G97-039903 DERG97-039903



[Nominate this for the Gallery...](#)

Copyright © 1997-2004
The Thomson Corporation

[Subscriptions](#) | [Web Seminars](#) | [Privacy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact Us](#) | [Help](#)